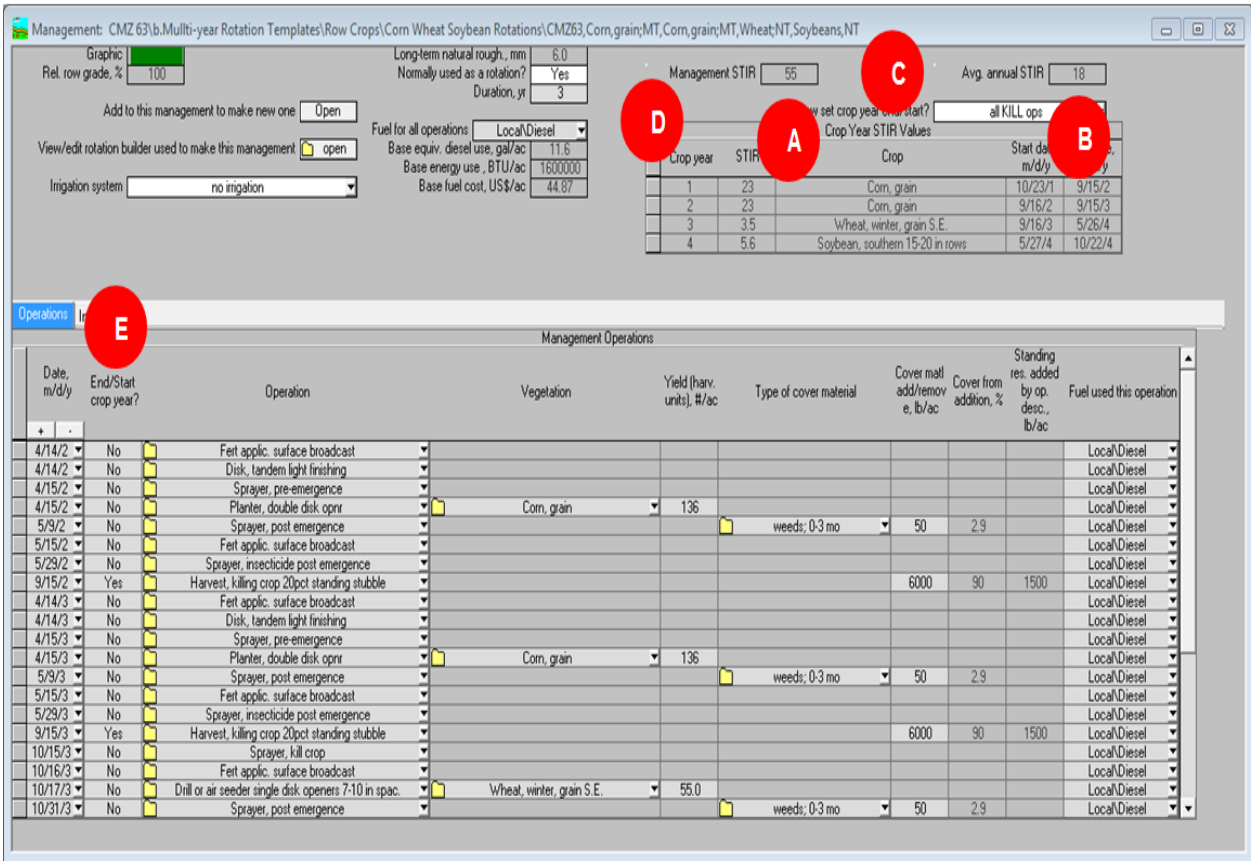
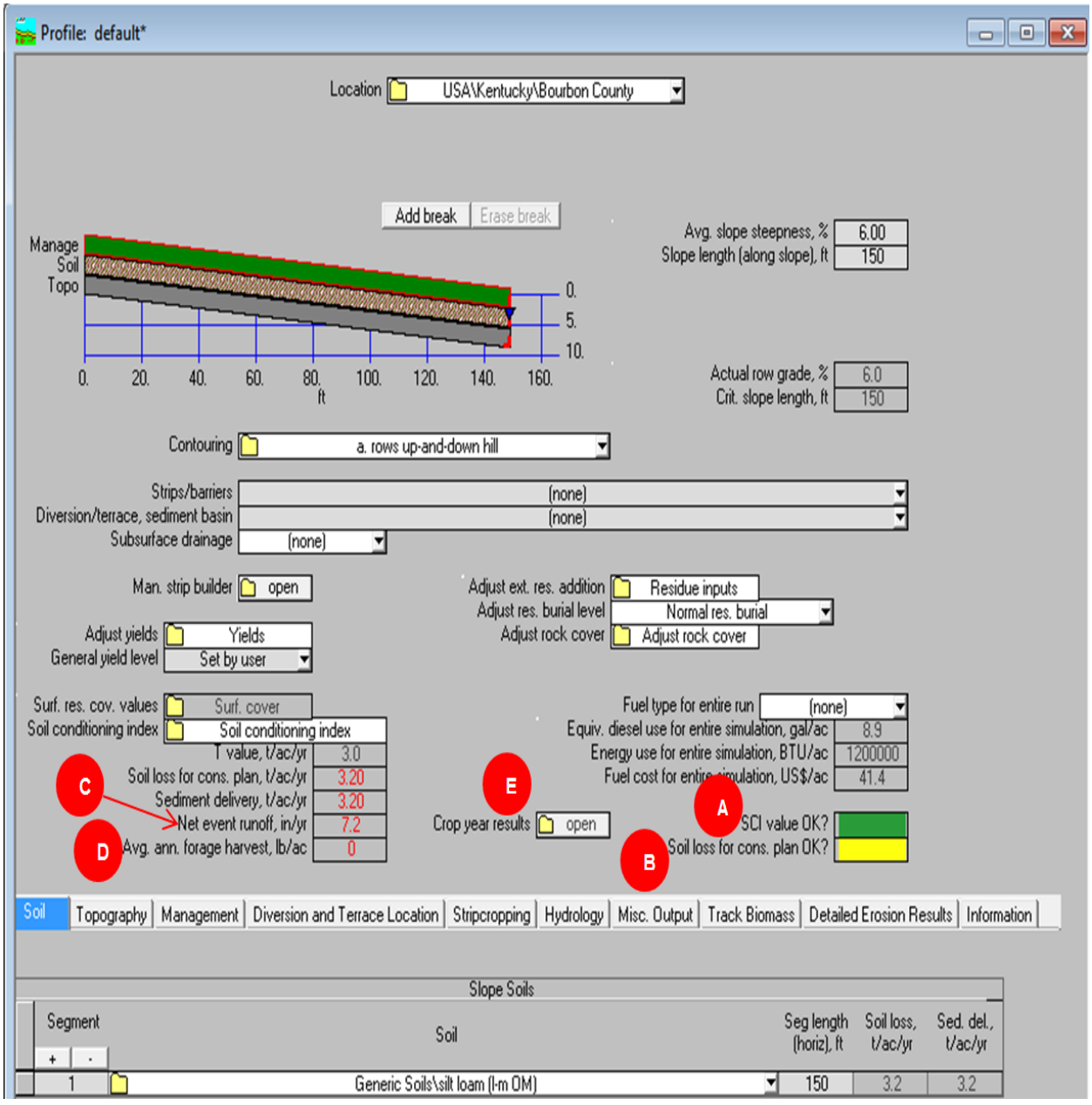
New Planning Features and Revisions to RUSLE2 (version 2.5.2.11)

Managements have a slightly new look. Parameters for Crop Year results has been added. Crop Year is defined as the period from the harvest of the last crop to the harvest of the current crop. This is important in determining which crop to attribute soil disturbance to calculate if a crop meets the 329 STIR requirements or inserting a crop in rotation to determine the impacts of STIR values and soil loss.

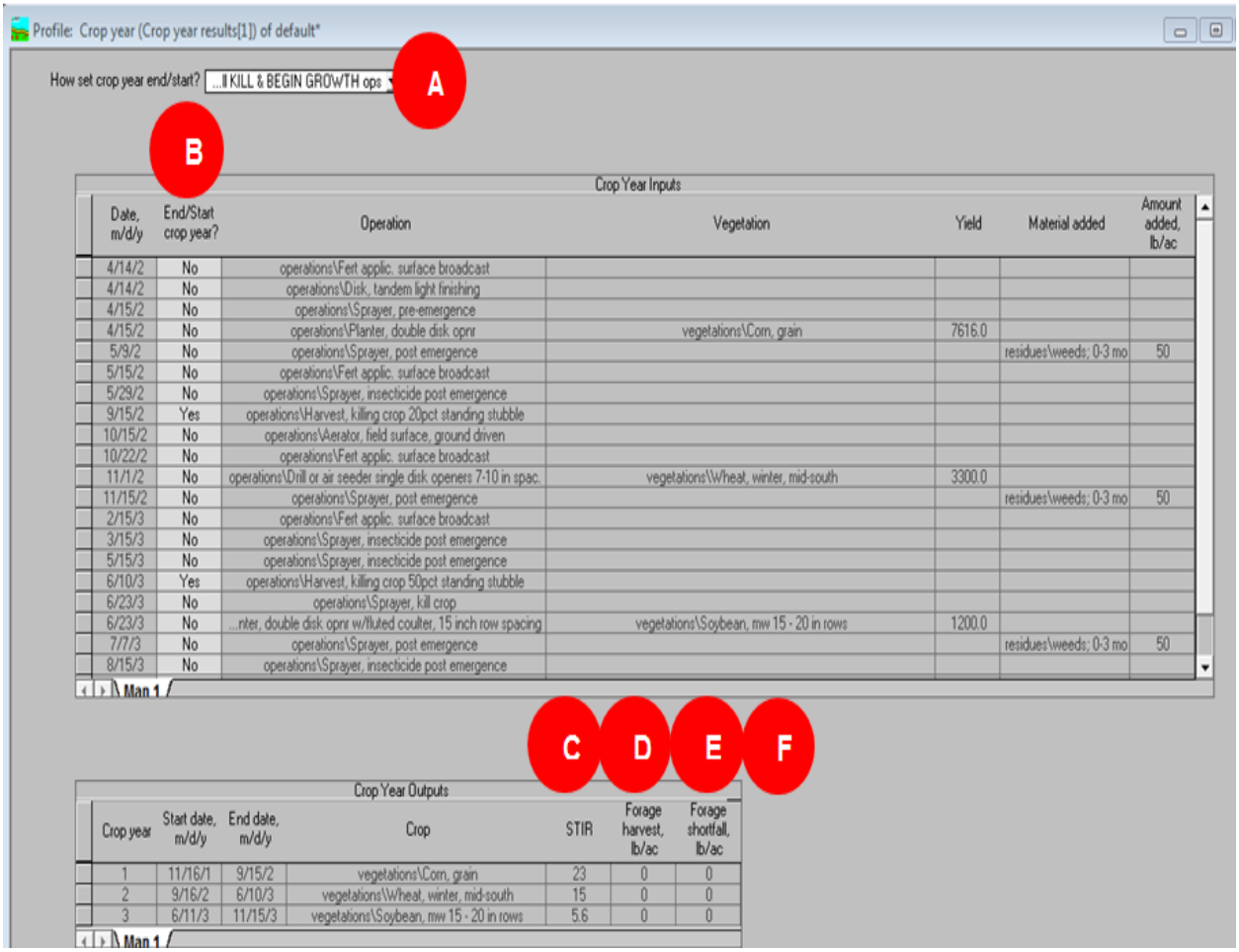


The letter A in the figure above indicates the total STIR for the entire management (in this case a 3 year rotation), the letter B indicates the average annual STIR for the rotation, letter C indicates how RUSLE2 determined the dates for determining the Crop Year Interval and the letter D indicates the Crop Year STIR results for each crop in the rotation. Letter E marks the column that the user will use to manually set the start and stop dates for calculating the Crop Year Interval. This is necessary in some cases where RUSLE2 will sometimes erroneously assign weed growth and cover crops their own interval. This planner must over-ride R2 to meet the definition of the crop interval from harvest of the previous crop to harvest of the current crop.

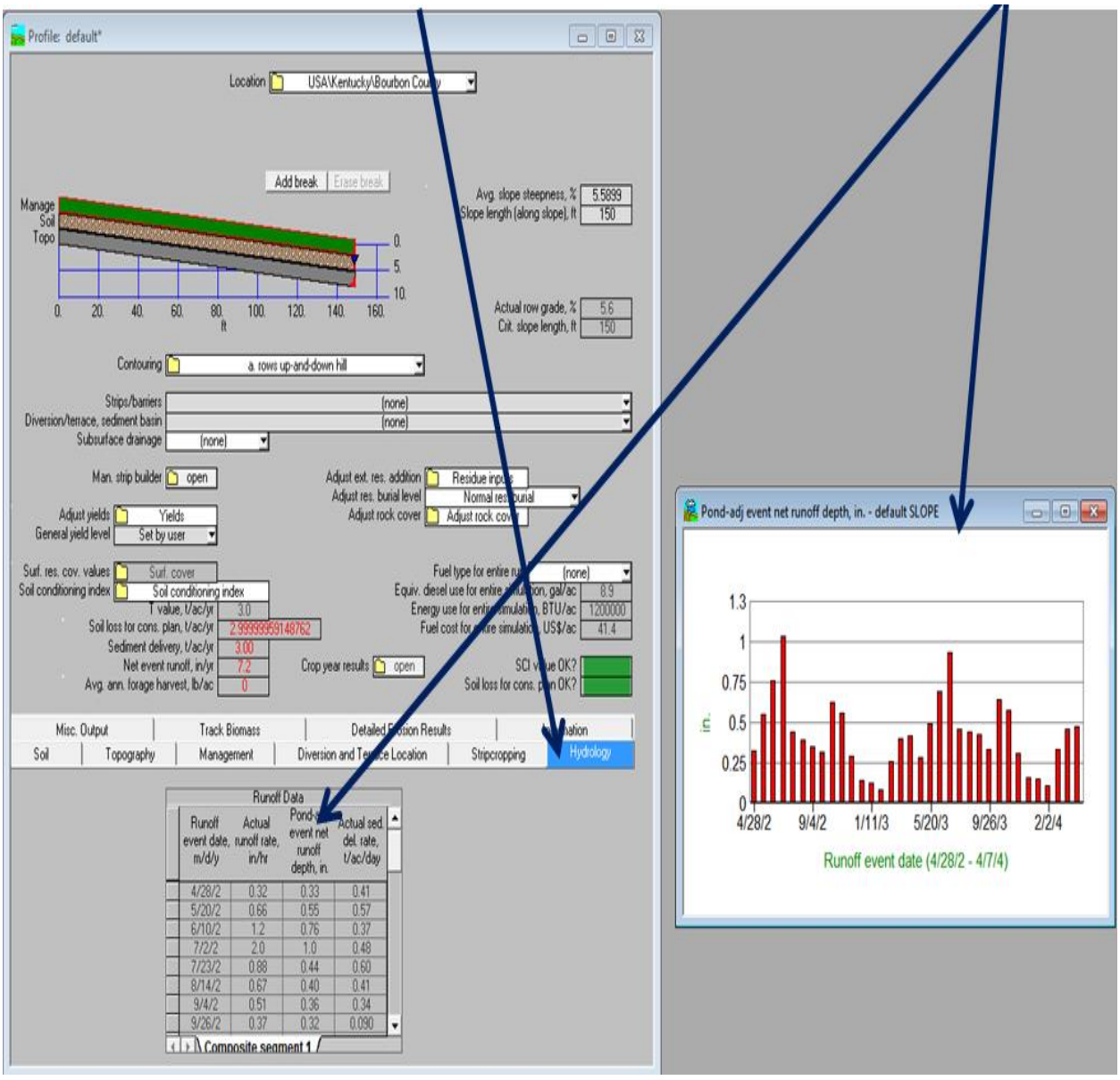
Profiles have some new outputs and functions. The letter A in the figure below indicates whether the SCI is above 0.2 (box is green), below -0.2 (box is red) or within the range of -0.2 to 0.2 (box is yellow). The letter B indicates whether the "Soil loss for conservation planning" is below T (box is green), between T and 2T (box is yellow) or is greater than 2T (box is red). The letter C indicates the amount of runoff expected from the R2 run and the letter D indicates the amount of forage harvest (average annual) results when using the new-style perennial vegetations. Letter E marks the Crop Year Results for the user to view and to manually set the start and stop dates for calculating the Crop Year Interval. More on the details of the Crop Year Results window on the next page.



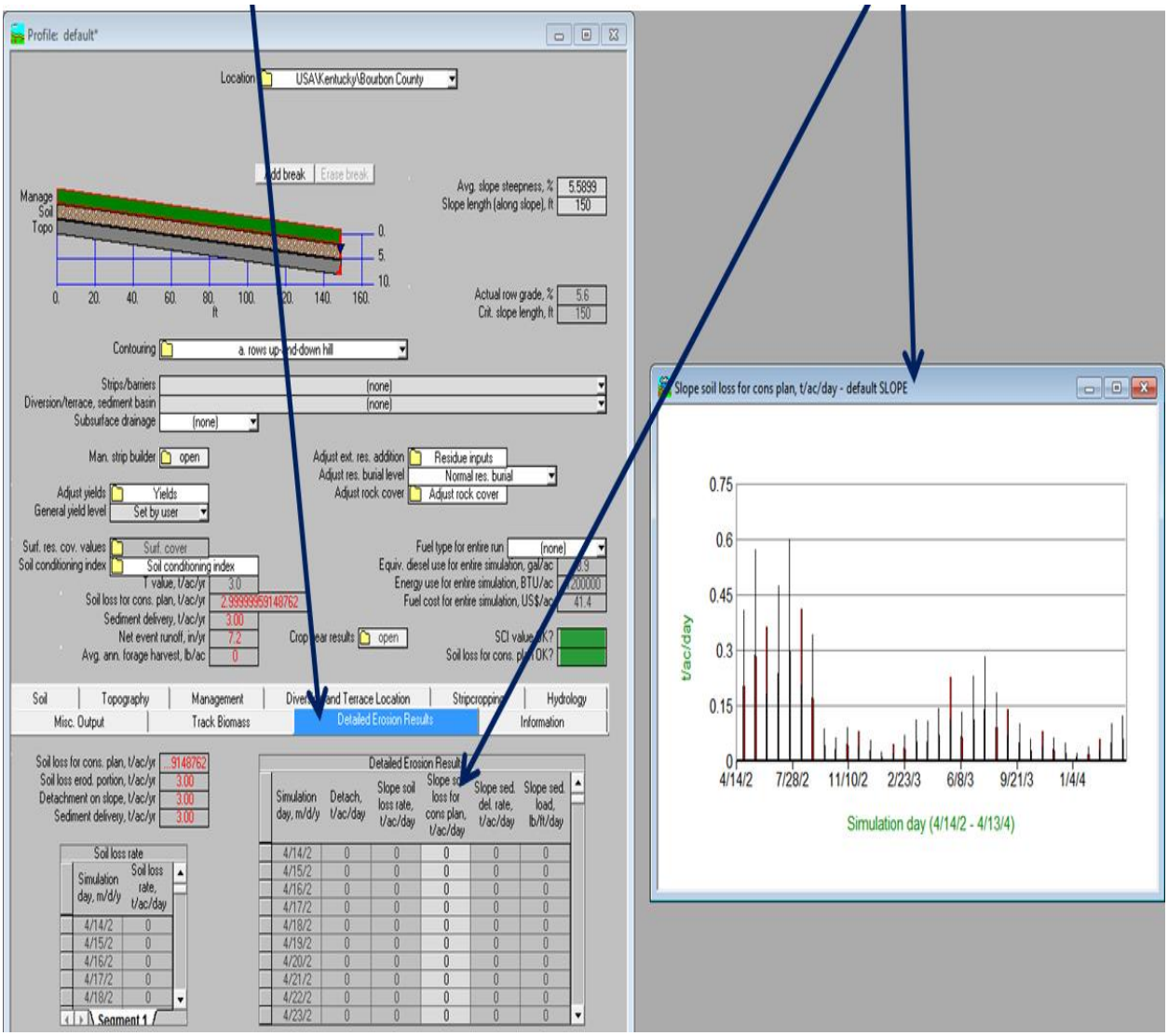
Crop Year Results. The letter A in the figure below indicates how RUSLE2 determined the dates for determining the Crop Year Interval, the total STIR for the entire management (in this case a 3 year rotation), and the letter B marks the column the user will use to manually set the start and stop dates for calculating the Crop Year Interval. This is necessary in some cases where RUSLE2 will sometimes erroneously consider weed growth and cover crops their own crop interval. The user must be over-ride R2, to meet the definition of the interval from harvest of the previous crop to harvest of the current crop. The letter C indicates the Crop Year STIR results for each crop in the rotation, letter D indicates the amount of forage harvest (average annual) results when using the new-style perennial vegetation file, letter E indicates the amount of shortfall for grazing when using the new-style perennial vegetation file, and the letter F indicates is a place holder for additional results that will be added in the next upgrade to RUSLE2 that will include Soil Loss and Sediment delivery values per Crop Year Interval.



New Tab in the **Profile** view called Hydrology. This tab allows the user to view the runoff events for your run.



New tab in the **Profile** called Detailed Erosion Results. This tab allows the user to identify periods of high erosion.



New **vegetations** will soon be coming out in the database. The new version of RUSLE2 is capable of tracking two live vegetations at the same time and allows newly created perennial vegetations to senesce older leaves into standing residue while still growing newer leaves. However, these new vegetations **WILL NOT BE AVAILABLE UNTIL YOU HAVE RECEIVED TRAINING ON HOW TO USE THEM AND ONLY USE THEM WITH THE NEW MANAGEMENTS ASSOCIATED WITH THE NEW FORAGE MANAGEMENT ZONES**.